

1. Descriptive Title

Theft detection for Digital Electronic Devices

2. Present State of the Art

Analog security and alarm systems that detect some events and set off alarms locally and remotely

3. Advancement in State of the art

This invention advances the state of the art in two aspects. (1) It is a software-based solution for digital systems (e.g. PC) and consumer electronics devices (e.g. Set-top box (STB), WebTV, camera, camcorder). (2) The detection can be based on power, wireless networking, and motion sensing.

4. How Achieved

4.1. Overall System Description

4.1.1. System Architecture

Figure 1 shows the general architecture of the system. The rectangle boxes represent processing modules, oval boxes represent alarms, and the cloud-shaped areas represent networks.

Figure 1: System Architecture

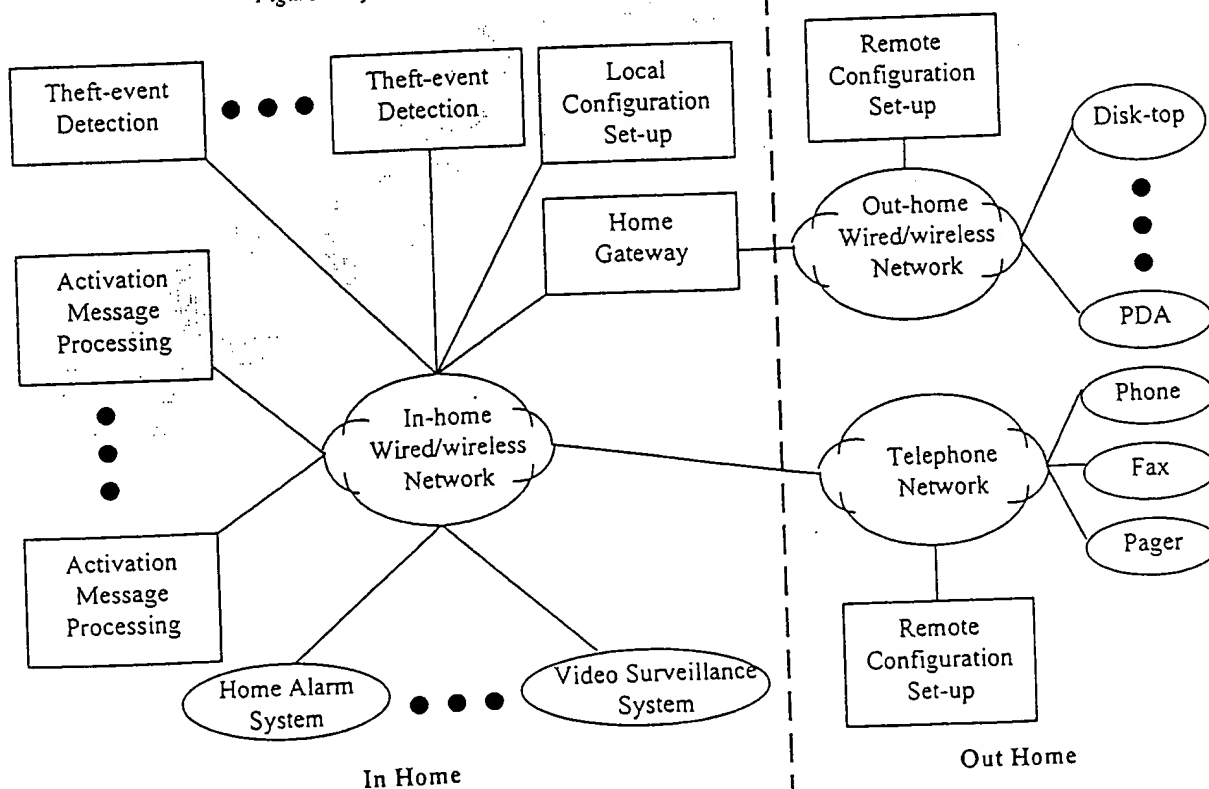


Figure 2: System configuration 1

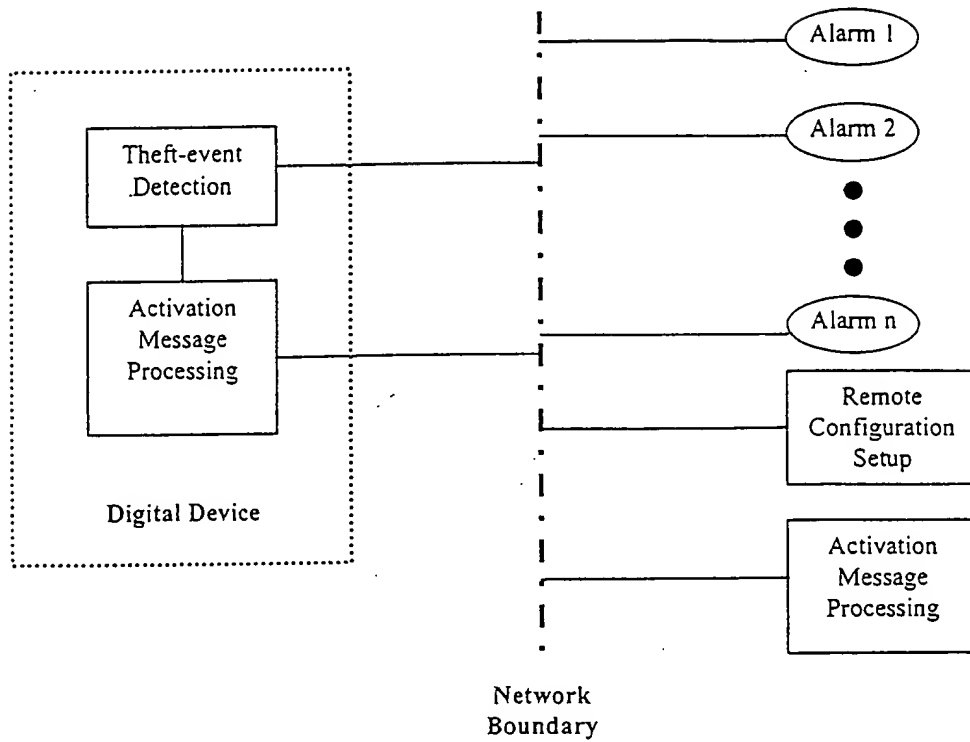


Figure 3: System configuration 2

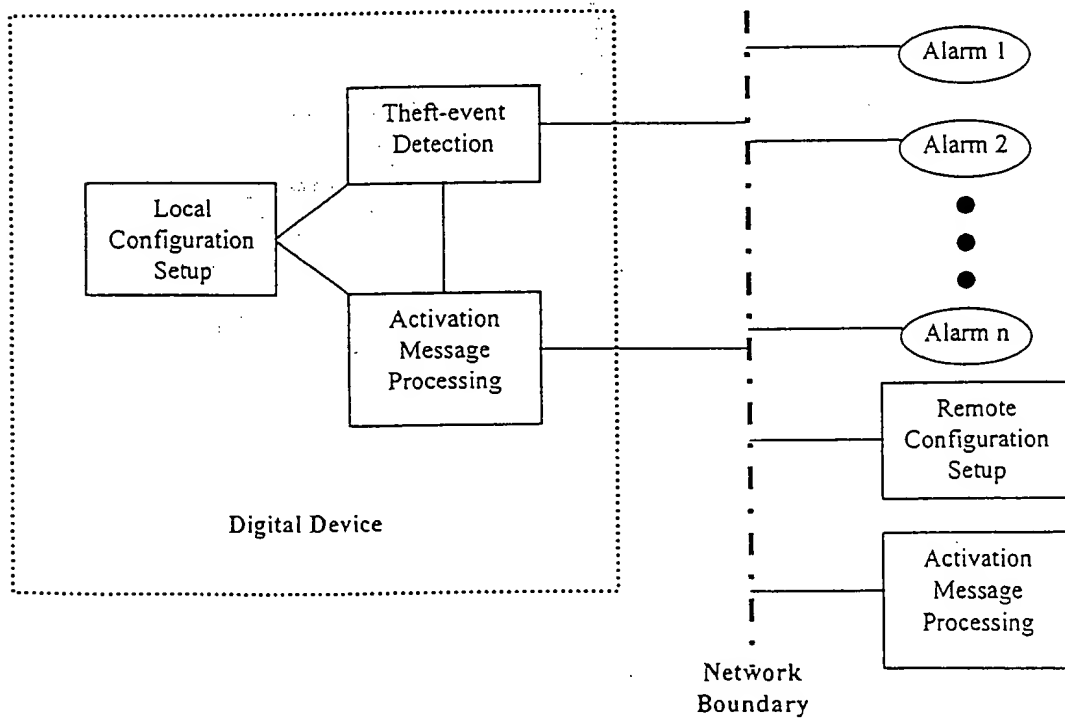


Figure 4: System configuration 3

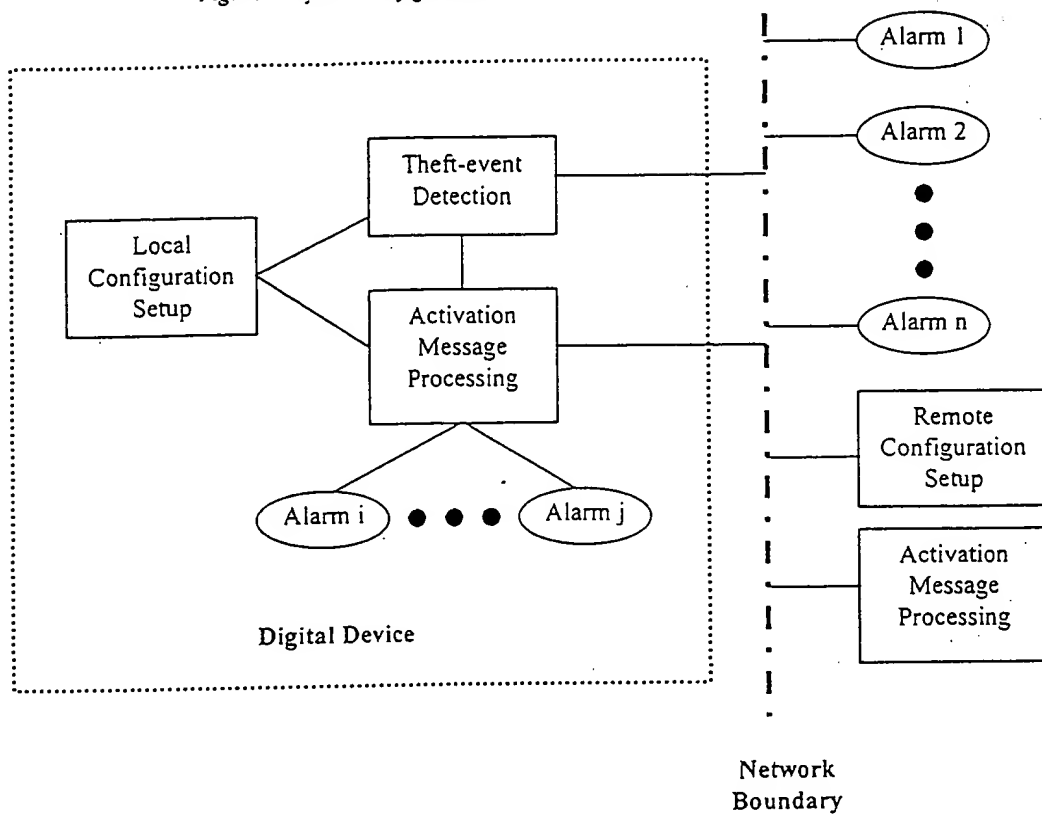


Figure 5: System configuration 4

